

Adele Chinda

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Research Interests

Machine Learning Algorithms and Techniques, Computer Vision and Image Processing, Natural Language Processing and Understanding, Robotics and Autonomous Systems, Intelligent Control Systems

Education

Belgorod State University Sept 2020 - July 2024 (*Expected*)
BSc in Applied Computer Science GPA: 3.87/4.0
Supervisor: Assoc. Prof. Bolgova Evgenia

Publications

Automated Hyperparameter Optimization [\[link\]](#) 2023
World Science: Problems and Innovations
[Adele Chinda](#), Maxim Pamanin

Transformer Architecture In Artificial Intelligence [\[link\]](#) 2023
Global Science
[Adele Chinda](#), Vladislav Gromiychuk

Support Vector Machines [\[link\]](#) 2023
Modern Scientific Knowledge
[Adele Chinda](#), Nikita Derevlev

Perceptron-Based Deep Learning: A Literature Review [\[link\]](#) 2023
Global Science
[Adele Chinda](#)

Analyzing the Dynamics of Recurrent Neural Networks [\[link\]](#) 2023
World Science: Problems and Innovations
[Adele Chinda](#), Viktor Dorokhov

Development of a Computing Cluster Based on NVIDIA TESLA * [\[link\]](#) 2022
International Center for Scientific Cooperation "Science and Education"
[Adele Chinda](#)

**published in Russian Language*

Experience

AI and Robotics Lab - Belgorod State University *July 2023 - Present*
Undergraduate Research Assistant | Supervisor: Prof. Olga Khudasova

- Developing an intelligent control algorithm for a non-linear system that would enhance the performance of robots and automated systems.

Open School of Engineering *September 2022 - May 2023*
AI Developer | Supervisor: Prof. Olga Khudasova

- Significantly contributed to a project with a focus on developing a Drone Navigation System at every stage, which included design, implementation, testing, and deployment.

Institute of Engineering and Digital Technologies - BSU *May 2022 - July 2022*
Undergraduate Research Assistant | Supervisor: Prof. Bugaeva Ekaterina

- Worked on the re-engineering of a real estate agency, incorporating an AI-powered CRM system for housing prices prediction and automation of agency workflow.

Selected Projects

Traver - AI powered stock portfolio manager

- Integrated artificial intelligence techniques with the Alpaca Markets API to develop an AI-powered stock market prediction application, providing users personalized buy and sell recommendations.

Computer Vision-Based Navigation System for Drones (State-Level Project)

- Developed a novel algorithm for tracking the drone's position and orientation using a combination of sensors.
- Implemented a robust obstacle avoidance system that allowed the drone to safely navigate in complex environments.

Voice Assistant: GPT-3.5-turbo + Bing GPT-4 [\[link\]](#)

- Designed a voice-activated assistant that uses NLP and machine learning techniques to understand and respond to user input. The assistant runs on both Microsoft Bing GPT-4 and OpenAI GPT-3.5-turbo.

Language Classification System [\[link\]](#)

- Implemented a language classification system that preprocesses a dataset of text samples, extracts linguistic features, analyzes feature correlations, trains a decision tree classifier, evaluates the model's performance, and enables model saving and loading.

Professional Activities

Russian Association of Artificial Intelligence (РАИИ) workshop 2023 ([website](#))

Russian TECH WEEK 2023 ([website](#))

ACM AI/ML TechTalk webinar ([website](#))

Innopolis AI Conference ([website](#))

Blog Posts

Study Journey [\[link\]](#)

CNN vs RNN [\[link\]](#)

Kernel Trick [\[link\]](#)

Support Vector Machines [\[link\]](#)

K-Nearest Neighbors [\[link\]](#)

Transfer Learning in Machine Learning [\[link\]](#)

Skills

Programming Languages: Python, MATLAB, Java, JavaScript, C++, Bash

Libraries and Frameworks: TensorFlow, Keras, PyTorch, HuggingFace, Pandas, Scikit-learn, Numpy

Languages: English (Professional), Russian (Fluent), Yoruba (Native), Spanish (Novice)